Michael Ailion

List of Publications by Year
in descending order

41 papers	3,438 citations	257450 24 h-index	265206 42 g-index
56 all docs	56 docs citations	56 times ranked	3571 citing authors

#	Article	IF	Citations
1	Improved Mos1-mediated transgenesis in C. elegans. Nature Methods, 2012, 9, 117-118.	19.0	397
2	A PDK1 homolog is necessary and sufficient to transduce AGE-1 PI3 kinase signals that regulate diapause in Caenorhabditis elegans. Genes and Development, 1999, 13, 1438-1452.	5.9	375
3	A phylogeny and molecular barcodes for Caenorhabditis, with numerous new species from rotting fruits. BMC Evolutionary Biology, 2011, 11, 339.	3.2	317
4	UNC-31 (CAPS) Is Required for Dense-Core Vesicle But Not Synaptic Vesicle Exocytosis in Caenorhabditis elegans. Journal of Neuroscience, 2007, 27, 6150-6162.	3.6	261
5	Parallel evolution of domesticated Caenorhabditis species targets pheromone receptor genes. Nature, 2011, 477, 321-325.	27.8	225
6	Dauer Formation Induced by High Temperatures in Caenorhabditis elegans. Genetics, 2000, 156, 1047-1067.	2.9	165
7	A Novel Sperm-Delivered Toxin Causes Late-Stage Embryo Lethality and Transmission Ratio Distortion in C. elegans. PLoS Biology, 2011, 9, e1001115.	5.6	158
8	A single regulatory gene integrates control of vitamin B12 synthesis and propanediol degradation. Journal of Bacteriology, 1992, 174, 2253-2266.	2.2	126
9	Neurosecretory control of aging in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7394-7397.	7.1	116
10	egl-4 Acts Through a Transforming Growth Factor-Î²/SMAD Pathway in Caenorhabditis elegans to Regulate Multiple Neuronal Circuits in Response to Sensory Cues. Genetics, 2000, 156, 123-141.	2.9	106
11	Neuron-specific proteotoxicity of mutant ataxin-3 in C. elegans : rescue by the DAF-16 and HSF-1 pathways. Human Molecular Genetics, 2011, 20, 2996-3009.	2.9	101
12	Trioâ€™s Rho-specific GEF domain is the missing GÎ±_q effector in C. elegans. Genes and Development, 2007, 21, 2731-2746.	5.9	84
13	Two global regulatory systems (Crp and Arc) control the cobalamin/propanediol regulon of Salmonella typhimurium. Journal of Bacteriology, 1993, 175, 7200-7208.	2.2	80
14	The membrane-associated proteins FCHo and SGIP are allosteric activators of the AP2 clathrin adaptor complex. ELife, 2014, 3, .	6.0	75
15	NCR-1 and NCR-2, the C. elegans homologs of the human Niemann-Pick type C1 disease protein, function upstream of DAF-9 in the dauer formation pathways. Development (Cambridge), 2004, 131, 5741-5752.	2.5	72
16	Isolation and Characterization of High-Temperature-Induced Dauer Formation Mutants in Caenorhabditis elegans. Genetics, 2003, 165, 127-144.	2.9	70
17	Two Rab2 Interactors Regulate Dense-Core Vesicle Maturation. Neuron, 2014, 82, 167-180.	8.1	69
18	C. elegans Anaplastic Lymphoma Kinase Ortholog SCD-2 Controls Dauer Formation by Modulating TGF-Î² Signaling. Current Biology, 2008, 18, 1101-1109.	3.9	66

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19	Functional genomics and biochemical characterization of the C. elegans orthologue of the Machadoâ€Joseph disease protein ataxinâ€3. FASEB Journal, 2007, 21, 1126-1136.	0.5	62
20	Genetic characterization of the pdu operon: use of 1,2-propanediol in Salmonella typhimurium. Journal of Bacteriology, 1997, 179, 1013-1022.	2.2	57
21	The EARP Complex and Its Interactor EIPR-1 Are Required for Cargo Sorting to Dense-Core Vesicles. PLoS Genetics, 2016, 12, e1006074.	3.5	53
22	Five promoters integrate control of the cob/pdu regulon in Salmonella typhimurium. Journal of Bacteriology, 1995, 177, 5401-5410.	2.2	48
23	Genetic Analysis of Dauer Formation inCaenorhabditis briggsae. Genetics, 2007, 177, 809-818.	2.9	32
24	Pristionchus nematodes occur frequently in diverse rotting vegetal substrates and are not exclusively necromenic, while Panagrellus redivivoides is found specifically in rotting fruits. PLoS ONE, 2018, 13, e0200851.	2.5	32
25	The end of the cob operon: evidence that the last gene (cobT) catalyzes synthesis of the lower ligand of vitamin B12, dimethylbenzimidazole. Journal of Bacteriology, 1995, 177, 1461-1469.	2.2	29
26	The NCA-1 and NCA-2 Ion Channels Function Downstream of Gq and Rho To Regulate Locomotion in Caenorhabditis elegans. Genetics, 2017, 206, 265-282.	2.9	26
27	The Conserved VPS-50 Protein Functions in Dense-Core Vesicle Maturation and Acidification and Controls Animal Behavior. Current Biology, 2016, 26, 862-871.	3.9	25
28	Dopamine negatively modulates the NCA ion channels in C. elegans. PLoS Genetics, 2017, 13, e1007032.	3.5	24
29	Genetics of Extracellular Matrix Remodeling During Organ Growth Using the Caenorhabditis elegans Pharynx Model. Genetics, 2010, 186, 969-982.	2.9	22
30	Ammonium-Acetate Is Sensed by Gustatory and Olfactory Neurons in Caenorhabditis elegans. PLoS ONE, 2008, 3, e2467.	2.5	21
31	The denseâ€core vesicle maturation protein <scp>CCCP</scp>â€1 binds <scp>RAB</scp>â€2 and membranes through its Câ€terminal domain. Traffic, 2017, 18, 720-732.	2.7	15
32	Casein Kinase 1Î´ Stabilizes Mature Axons by Inhibiting Transcription Termination of Ankyrin. Developmental Cell, 2020, 52, 88-103.e18.	7.0	15
33	Modulation of Gq-Rho Signaling by the ERK MAPK Pathway Controls Locomotion in Caenorhabditis elegans. Genetics, 2018, 209, 523-535.	2.9	14
34	EIPR1 controls dense-core vesicle cargo retention and EARP complex localization in insulin-secreting cells. Molecular Biology of the Cell, 2020, 31, 59-79.	2.1	14
35	Repression of the cob operon of Salmonella typhimurium by adenosylcobalamin is influenced by mutations in the pdu operon. Journal of Bacteriology, 1997, 179, 6084-6091.	2.2	13
36	The SEK-1 p38 MAP Kinase Pathway Modulates Gq Signaling inCaenorhabditis elegans. G3: Genes, Genomes, Genetics, 2017, 7, 2979-2989.	1.8	13

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37	Cytoplasmicâ€“Nuclear Incompatibility Between Wild Isolates ofCaenorhabditis nouraguensis. G3: Genes, Genomes, Genetics, 2017, 7, 823-834.	1.8	12
38	Hybridization promotes asexual reproduction in Caenorhabditis nematodes. PLoS Genetics, 2019, 15, e1008520.	3.5	10
39	Dopamine receptor DOP-1 engages a sleep pathway to modulate swimming in C.Âelegans. IScience, 2021, 24, 102247.	4.1	8
40	Local adaptation and spatiotemporal patterns of genetic diversity revealed by repeated sampling of Caenorhabditis elegans across the Hawaiian Islands. Molecular Ecology, 2022, 31, 2327-2347.	3.9	8
41	Genetics: Master Regulator or Master of Disguise?. Current Biology, 2017, 27, R844-R847.	3.9	1